

1 1(currently amended). An apparatus for use in analyzing video
2 images, comprising:

3 a video input signal providing a video signal to be analyzed, the video
4 input signal including at least one of successive picture frames and fields
5 containing a video picture;

6 a video processor operable to produce a display of information at least
7 partly from the video input signal;

8 a controller coupled to the video processor and to at least one control
9 input, the controller being operable to control the information displayed by the
10 video processor;

11 wherein the video processor is operable to produce a formatted display
12 of selectable data images for presentation on a display device wherein the
13 formatted display comprises a **changeable** selection of one of:

14 a full representation of the video picture contained in the video
15 input signal, selectively presented so as to occupy at least a portion of a
16 display area of the formatted display;

17 a zoom image including an area of particular scrutiny in said
18 video picture, selectively presented so as to occupy at least a portion of
19 the display area of the formatted display;

20 a report of video data characteristics of at least one point within
21 said area of particular scrutiny;

22 a subset of said full representation, said zoom image and said
23 report; and,

24 wherein the video processor is operable to change the area of
25 particular scrutiny **and said changeable selection of the formatted display,**
26 **when so as to select for video data characteristics meeting predetermined**
27 **criteria are met by said at least one of the successive picture frames and**
28 **fields of the video picture.**

2(original). The apparatus of claim 1, wherein the video processor
has a plurality of display modes in which at least two of the selectable data
images depict the area of particular scrutiny.

3(previously presented). The apparatus of claim 2, wherein the video
processor has a display mode wherein the full representation of the video
picture, the zoom image and the report of said video data characteristics are
presented at different parts of the display device and present progressively
smaller parts of the area of particular scrutiny.

4(original). The apparatus of claim 3, wherein the report includes a
tabular display of data respecting pixels at the area of particular scrutiny.

5(original). The apparatus of claim 4, wherein the tabular display of
data includes sample location information and color sample data.

6(original). The apparatus of claim 5, wherein the tabular display of
data includes a color swatch demonstrating the color sample data.

7(previously presented). The apparatus of claim 1, wherein the video
input signal contains a digital video signal with successive picture frames and
the video processor produces the formatted display repetitively for increments
of at least one frame, from one of discrete sample data and discrete color
state elements defining pixels in the video input signal.

8(previously presented). The apparatus of claim 1, wherein the video
processor produces the formatted display for increments of at least one frame
from one of discrete sample data and discrete color state elements defining
pixels in the video input signal.

1 9(previously presented). The apparatus of claim 1, wherein the video
2 processor is operable to resize at least part of the video picture for
3 presentation in part of an area of the formatted display that occupies less than
4 a full area of the formatted display, and wherein resizing by the video
5 processor includes at least one of recalculating pixel values, sampling pixel
6 values and reading out selected pixel values.

1 10(previously presented). The apparatus of claim 1, wherein the
2 control input is operable by a user manually to select from the video input
3 signal an area to be the area of particular scrutiny, and wherein the video
4 processor is operable simultaneously to present the video picture and the
5 zoom image including the area of particular scrutiny, in different areas of said
6 formatted display.

1 11(previously presented). The apparatus of claim 1, wherein the video
2 processor allots the formatted display to accommodate said selection.

1 12(previously presented). The apparatus of claim 1, wherein the video
2 processor is operable responsive to the control input to define a selection
3 criteria and automatically to select from the video input signal at least one said
4 area of particular scrutiny based upon data in the video input signal meeting
5 said selection criteria.

1 13(previously presented). The apparatus of claim 12, further wherein
2 the controller and the video processor are operable to coordinate between
3 automatic and manual selection of the area of particular scrutiny, wherein said
4 manual selection supersedes automatic selection at least for a limited period
5 of time.

- 1 14(original). The apparatus of claim 13, wherein the selection criteria
2 for said automatic selection include a color gamut value criterion having at
3 least one threshold value such that a value meeting the threshold value
4 criterion is selected for particular scrutiny.

Claims 15-17 were previously canceled.

Claims 18-20 are now canceled.

Claims 21-25 were previously canceled.

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